

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A heat-seal polymer film comprising a layer of film formed from a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from 1% to 15% by weight wherein the ethylene-propylene copolymer has a seal initiation temperature of 80°C to less than 125°C.

Claims 2-5 (canceled).

6. (original) The heat-seal polymer film of claim 1, wherein the film has less than 3% haze.

7. (original) The heat-seal polymer film of claim 1, wherein the film has greater than 85% gloss at a 45° incident angle.

8. (original) The heat-seal polymer film of claim 1, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

9. (original) The heat-seal polymer film of claim 1, wherein the layer of film is a cast film.

10. (original) The heat-seal polymer film of claim 1, wherein the layer of film is an oriented film.

11. (previously presented) The heat-seal polymer film of claim 1, wherein the random copolymer has a seal initiation temperature from 110° C to 125°C.

Claims 12 -13 (canceled).

14. (previously presented) The heat-seal polymer film of claim 1, wherein the heat-seal film

has an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a random copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

15. (original) The heat-seal polymer film of claim 1, wherein the heat-seal film is a cast film and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

16. (currently amended) A multi-layer polymer film comprising a polyolefin core layer and at least one heat-seal layer formed from a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from 1% to 15% by weight, wherein the ethylene-propylene copolymer has a seal initiation temperature of 80°C to less than 125°C that is joined to the polyolefin core layer.

17. (original) The multi-layer polymer film of claim 16, wherein the core layer and heat-seal layer are coextruded together.

18. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is less than the thickness of the core layer.

19. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is 20% or less than the thickness of the core layer.

Claims 20-23 (canceled).

24. (previously presented) The multi-layer polymer film of claim 16, wherein the heat-seal layer provides an ultimate seal strength that is at least 30% greater than a heat-seal layer prepared under similar conditions from a random copolymer of propylene and ethylene

using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

25. (previously presented) The multi-layer polymer film of claim 16, wherein the random copolymer has a seal initiation of from 110°C to 125°C.

Claims 26 - 27 (canceled).

28. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer is a cast film layer and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

29. (currently amended) A material for use in heat-seal applications comprising a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from 1% to about 15% by weight, wherein the ethylene-propylene copolymer has a seal initiation temperature of less than 80°C to 125°C.

30. (previously presented) The material of claim 29, wherein the material provides a heat-seal film having an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

Claims 31-32.

33. (previously presented) The material of claim 29, wherein the material provides a heat-seal film having a seal initiation temperature of from 80°C to 125°C defined at a seal strength of 200 g/inch.

Claim 34 (canceled).

35. (original) The material of claim 29, wherein the material provides a heat-seal film having less than 3% haze.

36. (original) The material of claim 29, wherein the material provides a heat-seal film having greater than 85% gloss at a 45° incident angle.

37. (original) The material of claim 29, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

38. (previously presented) The material of claim 29, wherein the random copolymer has a seal initiation of from 110°C to 125°C.

Claims 39-40 (canceled).

41. (original) The material of claim 29, wherein the material provides a cast heat-seal film having a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

42. (currently amended) A method of forming a heat-seal film comprising: providing a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from 1% to 15% by weight wherein the ethylene-propylene copolymer has a seal initiation temperature of less than 80°C to 125°C and forming the copolymer into a layer of film.